

# Notice of Allowability

Application No.

10/630,591

Examiner

Brigitte R. Hammond

Applicant(s)

GATTUSO ET AL.

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to a telephone interview Sept. 30, 2004.
2. ☐ The allowed claim(s) is/are 1-4,8-12,14-18,20-32 and 36-38.
3. ☒ The drawings filed on 29 July 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Brigitte Hammond*

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Wei Te Chung on September 30, 2004.

The application has been amended as follows: **In claim 1, line 11**, after "member" inserted - -, wherein the supporting member comprises a frame and a plurality of columns for supporting the frame, each of the columns defining a through hole, wherein the frame defines an opening in a center thereof, a pair of opposite channels next to the opening, a plurality of stepped holes corresponding to the mounting holes of the PCB module respectively, and a pair of spaced threaded holes in each of connection walls located between the opening and the channels, a pair of receiving holes in opposite inner lateral sidewalls thereof at opposite sides of the opening in communication with the corresponding channels, wherein the actuation system comprises a pair of first cams received in the channels of the frame respectively, a pair of second cams engaged with the heat sink, a pair of spindles respectively received in the receiving holes of the frame, and an actuation lever connected between the first cams - -; **in claim 8, line 1**, changed numeral "7" to - -1- -; **in claim 12, line 15**, after "base" inserted - -, wherein the actuation system comprises a pair of first cams, a pair of second cams, each having a circular portion and a planar portion, an actuation

lever having a pair of first lever arms and a second lever arm interconnecting the first lever arms, and a pair of spindles, wherein the supporting member comprises a frame and a plurality of columns for supporting the frame, each of the columns defining a through hole - -; in **claim 14, line 1**, changed numeral "13" to - -12- -; in **claim 20, line 1**, changed numeral "19" to - -12- -; in **claim 25, line 9**, after "cams" inserted - - , wherein the frame defines an opening in a center thereof, a pair of opposite channels next to the

opening, and a plurality of stepped holes arranged in a rectangular formation, wherein a pair of receiving holes is defined in opposite inner lateral sidewalls of the frame at opposite sides of the opening of the frame, the receiving holes being in communication with the corresponding channels, wherein the spindles of the actuation system are received in the receiving holes of the frame, and the first cams of the actuation system are received in the channels of the frame - -; in **claim 36, line 1**, changed numeral "35" to - -25- -; in **claim 39, line 15**, after "member" inserted - - , wherein said test connector further includes a lid vertically moveable for actuating said cover to move, said actuation system engages said lid, and said assembly further including biasing means to urge said heat sink toward the electronic package- - ; and **claims 5-7,13,19, 33-35 and 39-43 are canceled.**

***Allowable Subject Matter***

Claims 1-4, 8-12, 14-18, 20-32 and 36-38 are allowed.

The following is an examiner's statement of reasons for allowance: regarding claim 1, patentability resides, at least in part, in the testing assembly having a frame, a

plurality of holed columns supporting the frame and an actuation system comprising a pair of first cams received in channels of the frame, a pair of second cams engaged with the heat sink, a pair of spindles respectively received in receiving holes of the frame, and an actuation lever connected between the first cams, in combination with the other limitations in the base claim; regarding claim 12, patentability resides, at least in part, in the testing assembly having a frame, a plurality of holed columns supporting the frame and an actuation system comprising first and second pairs of cams, an actuation lever and a pair of spindles, in combination with the other limitations in the base claim; and regarding claim 25, patentability resides, at least in part, in the testing assembly having a supporting member comprising a frame with receiving holes, a plurality of columns supporting the frame and an actuation system comprising first and second pairs of cams, an actuation lever engaged with the first pair of cams and a pair of spindles engaged with the second pair of cams, wherein the spindles are received in the receiving holes of the frame, in combination with the other limitations in the base claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Glick et al. 6,162,066, Conroy, 6,741,089, Binns 6,137,298,

Goodwin 6,545,879, Choy 6,213,806, Gallagher et al. 6,086,387 were cited for similar testing devices with actuating systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brigitte R. Hammond whose telephone number is 571-272-2006. The examiner can normally be reached on Mon.-Thurs. and Alternate Fridays from 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A Bradley can be reached on 571-272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Brigitte R. Hammond  
Examiner  
Art Unit 2833

September 30, 2004